

of the shield 70, thereby holding all of the above components within the shield (or detector housing). The forward end of the shield 70 is threaded to facilitate attachment of a photo-multiplier tube 72 (Figure 1) in conventional fashion, and the combined detector may then be located in a tool housing (not shown).--

IN THE CLAIMS

Please substitute the following amended claim(s) for corresponding claim(s) 3 and 7 previously presented. A copy of the amended claim(s) showing current revisions is attached.

a³
3. (Amended) The scintillation detector of claim 1 wherein a gadolinium disc covers a rear face of said crystal element.

a⁴
4. (Amended) The scintillation detector of claim 6 wherein said crystal element is wrapped with a reflective tape, and said gadolinium foil is radially between said reflective tape and said stainless steel or titanium sleeve.